



SAN BENITO COUNTY

HEALTH & HUMAN SERVICES AGENCY

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Environmental Health
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SWIMMING POOL AND SPA PLAN CHECK

Pool Name	Location/Address	City
Owner	Address	Phone
Contractor	Address	Phone

Plan Checker: _____ Contact Number: (831) 636-4035

THE FOLLOWING CHECKLIST IS BASED UPON SECTIONS CONTAINED WITHIN TITLE 22 AND TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE CALIFORNIA HEALTH AND SAFETY CODE.

1. (a) (b)	1. Plans & Specifications (65505) (a) Swimming Pool Scale 1/4 inch = 1 foot (b) Spa Scale 1 inch = 1 foot
2. (a) (b) (c) (d) (e)	2. Definition Pool Classifications (65501) (a) (2-9013a) Swimming Pool: Maximum depth for shallow ends are 3 ft. 6 inches. (b) Wading Pool: Maximum depth 18 inches; maximum sidewall depth 12 inches. (c) Temporary Training Pool: Maximum depth 3 ft. (d) Special Use Pool (e) Spa: Maximum surface area 250 sq. ft.; max depth 4'
3. (a) (b) (c) (d)	3. Pool construction (3106B) (a) Except for spas, the finish color shall be white, with smooth, waterproof interior finish. (b) Spa pools may be finished in a pastel color other than white. (c) Spa pool bench and step edges to be a contrasting color. (d) Pool is free from projections or recessed areas. EXCEPTION: Benches permitted in spa pools if the water depth over a bench does not exceed 24 inches.
4. (a) (b)	4. Temporary Training Pool - Additional Requirements (3107B) (a) Complies with section 2-9011. (b) Installed on a paved level surface that extends at least 10 feet beyond pool walls.

(c)	(c) Provided with a secured solid cover that will support 40 lbs./sq. ft.
(d)	(d) Pool and cover designed by a registered engineer.
5.	5. Geometry (3108B)
(a)	(a) Geometry of pool conforms to the appropriate diagrams in figures 31B -1 through 31B-3. EXCEPTION: Special use pools permitted a depth greater than 3½ ft. at shallow end.
(b)	(b) Maximum slopes 1:10 from shallow end to break in slope, 1:3 from break in slope to main drain.
(c)	(c) Safety rope fasteners required at 4½ ft. depth when there is a break in slope.
(d)	(d) Diving board, headroom (15 ft. min. above, 10 ft. min. forward).
(e)	(e) End of diving board to end of pool (30 ft. min.).
6.	6. Permanent Markings (3109B)
(a)	(a) Four inch wide line of contrasting color across bottom of pool required at 4½ foot depth. EXCEPTION: Pools with depth not exceeding 5 feet are exempt from requirement.
(b)	(b) Depth markers required at (a) maximum depth, (b) minimum depth, (c) each end, (d) break in slope, (e) on perimeter at increments not exceeding 25 feet. Must be of contrasting color and minimum height of 3 inches. EXCEPTION: Spa and wading pools shall have at least 2 depth markers indicating maximum depth.
(c)	(c) Pool width greater than 20 feet: Depth markers required on edge of deck next to pool.
(d)	(d) Width of lane line markings not to exceed 12 inches.
(e)	(e) Design on bottom or sides that resemble human forms are prohibited.
7.	7. Steps and Ladders (3110B)
(a)	(a) If depth in shallow portion exceeds 2 feet, steps or ladders are required.
(b)	(b) If depth in deep portion exceeds 4½ feet, ladders are required.
(c)	(c) If pool width exceeds 30 feet, ladders required on both sides at increments not exceeding 100 feet.
(d)	(d) Minimum tread of stairs 12 inches, maximum risers 12 inches - must be uniform. If top steps curved convexly, top step tread to be at least 18 inches at maximum point of curvature.
(e)	(e) Step holes for ladders (5 inch tread, 14 inch width).
(f)	(f) Safety rail extends from deck to a point above top of lowest step. Upper surf of safety rail located at least 28 inches above deck. EXCEPTION: See (g)

(g)	<p>(g) SPA: Two safety rails, required for 12 inch riser; one safety rail required for 9 inch riser. Leading railing edge extends to a point not less than 12 inches from the plane of the bottom riser. Steps and rail located at 4 ft. deck width.</p>
<p>8.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p>	<p>8. Handholds (3111B)</p> <p>(a) Located not more than 9 inches above water level. EXCEPTION: Handholds not required at wading pools.</p> <p>(b) Bull-nosed coping, perimeter overflow systems, or cantilevered decking that is not over 2½ inches thick for outer 2 inches - minimum 1 inch wide. EXCEPTION; (1): Other types of handholds permitted at spas.</p> <p>(c) For special use pools used for instruction or competitive swimming, a handhold at water level similar to perimeter overflow system is required.</p>
<p>9.</p>	<p>9. Diving Boards (3112B)</p> <p>See subsections 3108B.4 for requirements and figures 31B-1, 31B-2. 31B-3.</p>
<p>10.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p> <p>(d)</p> <p>(e)</p> <p>(f)</p> <p>(g)</p> <p>(h)</p> <p>(i)</p> <p>(j)</p>	<p>10. Decks (3113B)</p> <p>(a) To be non-slip surface of floated or brushed finish concrete (any other proposal will require a submitted sample).</p> <p>(b) Four foot minimum deck to surround pool and rear of diving board. EXCEPTION: Deck required only on 50% of spa pool perimeter.</p> <p>(c) SPA: Landscape planters, flower beds, or similar unpaved areas shall not be located within 4 feet of spa.</p> <p>(d) Coping shall be slip resistant.</p> <p>(e) Six foot clearance between spa and adjacent pool.</p> <p>(f) Deck sloping at least ¼ inch per foot away from pool.</p> <p>(g) If there are deck drains, not more than 400 square feet/drain and drains spaced not more than 25 feet apart.</p> <p>(h) Artificial deck covering if sample approved.</p> <p>(i) (2-9004) Handicapped access Section 2-611(b).3D of State Building code reads as follows: Swimming pool deck areas must be accessible and an assistive device provided to assist physically handicapped persons in gaining entry into the pool (hotels, motels, dormitory facilities, sport related facilities).</p> <p>(j) Temporary training pool: Deck may be omitted. If raised deck provided, handrail required at perimeter.</p>

<p>11.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p> <p>(d)</p> <p>(e)</p> <p>(f)</p> <p>(g)</p> <p>(h)</p>	<p>11. Showers, Dressing Facilities, and Toilets (3115B)</p> <p>(a) One pool user/15 square feet of pool surface area. To determine distribution of men and women, divide this number by 2.</p> <p>(b) One shower/50 pool users. EXCEPTION: Showers and dressing facilities not required if available in adjacent living quarter.</p> <p>(c) One toilet/60 women; one toilet and urinal/75 men; one lavatory/80 pool users. EXCEPTION: Restrooms not required if they are available within 300 ft. of pool at living quarters or adjacent building.</p> <p>(d) Slip resistant floors sloped not less than ¼ inch/ft. to drains or other approved surface disposal.</p> <p>(e) Approved floor covering covered 5 inches up wall.</p> <p>(f) (65551a), (2-9021d) Impervious wall surface.</p> <p>(g) Shower temperature control which limits temperature to 110° F. Hot and cold tempered water required.</p> <p>(h) (65551b,c) Soap and towel dispenser, toilet tissue.</p>
<p>12.</p> <p>(a)</p>	<p>12. Drinking Fountains (3116B)</p> <p>(a) Guarded angle jet drinking fountains required unless water is available at living quarters or adjacent building. Number of fountains based upon one pool user/15 square feet and computed at 1 fountain/250 pool users plus an additional fountain for each additional 200 pool users.</p>
<p>13.</p> <p>(a)</p>	<p>13. Hose Bibs (3117B)</p> <p>(a) Provided so that all portions of the pool deck area may be reached with a 75 ft. hose. Hose bib must be protected against backflow.</p>
<p>14.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p>	<p>14. Fencing and Gates (3118B)</p> <p>(a) Provided at each pool and pool enclosed by 5 ft. minimum height fence, building, or enclosure.</p> <p>(b) Openings in fence or enclosure not to exceed 4 inches.</p> <p>(c) Gate shall be equipped with a self-closing and self-latching device located not less than 3½ ft. above deck.</p>
<p>15.</p> <p>(a)</p> <p>(b)</p>	<p>15. Signs (3119B)</p> <p>(a) (65539c) "Warning No Lifeguard On Duty."</p> <p>(b) (65539d) Artificial Respiration, Emergency Phone #'s.</p>

(c)	(c) Occupant Load - 1 pool user/20 sq. ft. of water surface area. For spa, 1 pool user/10 sq. ft. EXCEPTION: Wading pools exempt.
(d)	(d) "No Diving Allowed" sign for pools less than 6 ft. deep.
(e)	(e) Spa warning sign.
(f)	(f) as Chlorine Warning Sign.
(g)	(g) (3-680-13) Emergency shut off switch sign (for spa pools).
16.	16. Safety Equipment (65539e)
(a)	(a) Minimum 12 ft. pole with body hook.
(b)	(b) Life ring with minimum exterior diameter of 17 inches and attached rope long enough to span the maximum width of the pool.
17.	17. Indoor Ventilation (3120B)
(a)	(a) Indoor pools shall be adequately ventilated. Lighting and ventilation requirements are found in section 605 of the Uniform Building Code.
18.	18. Foundations for Pool Equipment (3121B)
(a)	(a) Equipment to be mounted on concrete pad and sloped at least ¼ inch/foot to drain or other approved surface disposal.
19.	19. Gas Chlorine Equipment Room (3122B)
(a)	(a) Room not located below ground level.
(b)	(b) (2-9041c) Scale required.
(c)	(c) Entry door shall open to the exterior of the building and shall not open directly towards the pool or pool deck.
(d)	(d) Fresh air intake within 6 inches of ceiling.
(e)	(e) Mechanical exhaust which produces at least 60 air changes/hr. and is vented to outside air. Discharge located at least 10 ft. from windows or adjacent building.
(f)	(f) (65547(a)2) Approved gas mask, self contained breathing apparatus.
(g)	(g) (65547(a)4) Evacuation procedure plan located near entrance.
20.	20. Recirculation Piping System and Components (3125B)
(a)	(a) Flow velocity not to exceed 10 ft/second on inlet piping and 8 ft/second on suction piping or copper piping.
(b)	(b) Pressure gauge on influent and effluent lines. Same elevation, adequate range.
(c)	(c) Vacuum gauge on suction type filters.

(d)	(d) Flowmeter, accurate within 10% of actual flow.
(e)	(e) (3123B.1) Each pool must have separate recirculation and treatment systems.
(f)	(f) (3123B.1) Spa EXCEPTION: Two spa pools are permitted to share the same recirculation and treatment system provided that the flow and chlorination are individually metered and adjustable.
(g)	(g) Hair and lint strainer.
(h)	(h) Backwash piping provided.
(i)	(i) All valves clearly identified.
(j)	(j) (3123B.3) Adequate clearance for equipment operation and maintenance.
21.	21. Recirculation Pump Capacity (3126B)
(a)	(a) Pressure D.E. - 60 ft. head.
(b)	(b) Vacuum D.E. - 40 ft. head.
(c)	(c) Rapid sand - 45 ft. head.
(d)	(d) High rate sand - 60 ft. head.
(e)	(e) (USPSHTC-202) Cartridge - 50 ft. head.
22.	22. Water Supply Inlets (3127)
(a)	(a) Water supply system has a current permit from an approved source.
(b)	(b) Permanently installed fill line. EXCEPTION: Spa pools, temporary pools and pools less than 1500 gallons may be exempt.
(c)	(c) Air gap, vacuum breaker, or double check valve attached to permanently installed fill inlet line.
23.	23. Sand, Diatomaceous Earth Filter Requirements (3129B-3131B)
(a)	(a) (2-9037a) Rapid Sand - maximum 3 gpm/sq. ft.; backwash minimum 12 gpm/sq. ft.
(b)	(b) (2-9038a) D.E. - maximum 2 gpm/sq. ft., maximum 2½ gpm for continuous slurry feeding of filter aid for pools 2000 sq. ft. or more.
(c)	(c) (2-9039b) High rate sand - suggested maximum 15 gpm/sq. ft.; backwash minimum 15 gpm/sq. ft.
(d)	(d) Cartridge 0.375 gpm/sq. ft.
24.	24. Disinfectant Feeder (3133B)
(a)	(a) NSF approved and/or easily cleanable, corrosion resistant (a) be capable of supplying 3 lbs. of chlorine per day per 10,000 gallons, (b) adjustable flow rate, and (c) backsiphonage protection.
25.	25. Skimmers (pool area not over 5,000 square feet) (3134B.1)

<p>(a)</p> <p>(b)</p> <p>(c)</p> <p>(d)</p> <p>(e)</p> <p>(f)</p> <p>(g)</p> <p>(h)</p>	<p>(a) (2-9042) Capable of withdrawing minimum 75% required recirculation capacity.</p> <p>(b) Recessed into pool wall.</p> <p>(c) Adjustable flow rates.</p> <p>(d) Weir shall automatically adjust to 4 inch water level.</p> <p>(e) Equalizer line (Anti-air lock device).</p> <p>(f) Removable screen or basket.</p> <p>(g) One skimmer for each 500 sq. ft. or fractional part thereof.</p> <p>(h) Located in a manner to enhance water recirculation.</p>
<p>26.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p> <p>(d)</p> <p>(e)</p> <p>(f)</p> <p>(g)</p>	<p>26. Perimeter Overflow (Required for pools over 5,000 square feet) (3134B.2)</p> <p>(a) (3134B) Capable of withdrawing minimum of 75% required recirculation capacity.</p> <p>(b) Channel minimum 3 inches deep; bottom width of channel minimum 3 inches; opening beneath deck into channel minimum 4 inches.</p> <p>(c) Channel lip maximum 12 inches below top of deck; rounded lip edge not thicker than 2½ inches nor thinner than 1 inch for the top 2 inches.</p> <p>(d) Channel outlet minimum 2½ inches spaced not more than 15 feet apart and channel slope to outlets not less than ¼ inch/ft.</p> <p>(e) Channel drain grates 1½ times area of outlet pipe.</p> <p>(f) Surge tank minimum 1 gallon/sq. ft. of pool surface.</p> <p>(g) Automatic surge flow control to make-up (fresh) water with manual override for maintaining pool water level.</p>
<p>27.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p>	<p>27. Bottom Drain Outlets (3134B.3)</p> <p>(a) Designed so that pool can be emptied.</p> <p>(b) Grates removable only with tools, safety covers required.</p> <p>(c) SPA ONLY - Duplicate drains for both the recirculating system and aeration/jet system or single drains with safety covers for both systems to prevent suction hazard to pool users.</p>
<p>28.</p> <p>(a)</p> <p>(b)</p> <p>(c)</p>	<p>28. Inlets (3134B.5)</p> <p>(a) Minimum of 2 inlets for the first 10,000 gallons and one inlet for each additional 10,000 gallons or fractional part. EXCEPTION: Minimum of 1 inlet permitted at spa.</p> <p>(b) Located not less than 18 inches below waterline. EXCEPTION: spa and wading pools exempt.</p> <p>(c) Pools greater than 40 ft. width require one floor inlet/10,000 gallons or fractional part.</p>

(d)	(d) Adjustable for volume and direction of flow.
29. (a)	29. Aeration/jet system (SPA ONLY) (3135B.1) (a) Shall be separate from filtration system and not interconnected with non-spa pool.
30. (a)	30. Cleaning Systems (3136B) (a) A vacuum cleaning system is required. Either a portable vacuum cleaner or unit built into skimmer with backflow protection.
31. (a) (b) (c) (d) (e) (f)	31. Waste Water Disposal (3137) (a) Air gap to sewer or drainage system. Floor sink is in a location that is accessible and not a trip hazard. (b) (USPSHTC-311) Separation Tank is required for DE filters. Closed loop with return of water to pool is prohibited. (c) Sight glass installed in pipe between filter and separation tank (not required if readily visible air gap connection to sewer provided). (d) Filter backwash to be done in a sanitary manner. (e) Sink required in equipment area when cartridge filter is provided. (f) (USPSHTC-310) Backwash receptacle and adequate p-trap size (3 in.)
32. (a) (b) (c) (d) (e)	32. Electrical (Article E680) (a) Underwater light and area lighting if pool used at night. (b) (3-680-13) Spa emergency shut-off switch for aeration and recirculation. (c) (3-680-6a) Receptacle outlets adjacent to pool/spa. (d) (3-680-12a) Switches for mechanical ventilation and lighting fixtures in a gas chlorine room must be located outside and adjacent to entry door. (e) (3-680-12b) Equipment interlocks between gas chlorine feeding device and pool recirculating pump.
33. (a) (b) (c)	33. Solar System (a) Separate pump. (b) Additional hydraulic analysis when recirculating pump is proposed for solar system. (c) (2-5364c) 36 inch pipe between filter and fossil fuel heater.

Additional items to be corrected:

Thank you for submission of these plans. Please complete the corrections detailed above and resubmit the plans for review. Any changes in equipment that occurs during the plan check process or at the job site must be submitted for prior approval by this department. Failure to do so will result in the final construction approval being delayed.

If you have any questions regarding this plan check, feel free to contact me at (831) 636-4035. The best time to contact me is:

Sincerely,

Environmental Health Specialist (Name)

Signature

Pool Construction Plan Check

San Benito County Health & Human Services Agency

Environmental Health Division

351 Tres Pinos Road, Ste C-1 Hollister, CA 95023

831-636-4035/Fax: 831-636-4037

When submitting swimming pool plans for approval, a Plan Check fee for their review, a Health Services fee, and 3 sets of plans at 1/4"=1' scale with the following information are required:

1. Name and mailing address of owner.
2. Address of the pool to be constructed.
3. Name, address and telephone number of pool company or pool builder.
4. Scaled plot plan showing pool location in relationship to adjacent buildings.
5. Floor plan of restroom facilities (when necessary) to be used by bathers.

If the farthest living quarters are over 300 feet in travel distance from pool side, separate and adjacent restroom facilities will be required. If it is less than 300 feet from pool side to the farthest living quarters, the accompanying plot plan must have dimensions to scale that indicate restrooms will not be required.

RESTROOM FACILITY REQUIREMENTS (When necessary)

1. Separate restrooms for both men and women, with access for the handicapped.
2. View screen for privacy.
3. Smooth, moisture resistant wall finishes throughout.
4. Floor must extend upwards onto wall at least 5" with an integrally coved junction and shall slope to floor drains.
5. Shower or showers with adequate drainage and hot and cold water.
6. Hand lavatory with single-service soap and towel dispensers and hot and cold water.
7. Drinking fountain in the pool area.
8. A water closet in each restroom (minimum).
9. Carpet is not allowed in toilet or shower rooms.

PROFILE VIEW (Longitudinal section) drawn through the center line of the pool must indicate the following data:

1. Overall length dimension.
2. Distance from shallow end wall to point of break in bottom slope from shallow to deep portions.
3. Distance from break in bottom slope to main drain (maximum depth).
4. Distance from main drain (maximum depth) to deep end wall.
5. Depth at shallow end wall (maximum depth of 3 1/2 feet at base of steps).
6. Depth at break in bottom slope.
7. Depth at main drain.
8. Location of safety line anchors.
9. Height of step risers.
10. Design and location of handrail(s).

TOP VIEW must indicate the following data:

1. Diving board (if any) location and distance from board center to side walls and any other diving board.
2. Skimmer and suction line locations and sizes.
3. Four inch wide, slip resistant tiles, of contrasting color, along bottom of pool where water depth is 4 1/2 feet. (Note: Pool with a maximum depth of 5 feet or less is not required to provide the depth marking line).

4. Fill line location (permanently installed).
5. Location and sizes of returns and main drain line.
6. Location of ladder and grab rails, steps and safety handrails (upper rail must be at least twenty-eight inches above deck level.)
7. Pool light location and wattage.
8. Width of pool at main drain (fifteen feet minimum).
9. Location of equipment room or area, copper face piping line size, and required equipment location.

EQUIPMENT SPECIFICATIONS (size for six hour turnover rate).

1. Filter, make, square footage and model number.
2. Pump, make, model number and horsepower.
3. Skimmer, make, model number with equalizer line, if not connected to main drain. (One for each five hundred square feet of fractional part thereof).
4. Chlorinator, make and model number.
5. Flow indicator, make and model number.
6. Slurry funnel or if feeder required, indicate make, model number.
7. Influent and effluent pressure gauges.
8. Backwash line to sewer interceptor with air-gap and sight-glass as required.
9. Color of plaster (must be white).
10. Anti-siphon valve on fresh water fill line at supply valve.
11. Equipment room floors must be concrete and slope to drainage.

SUPPORTING DATA (Indicate or list the following data)

1. Pool capacity in total gallons.
2. Square footage of pool.
3. Dimensions of pool length and width.
4. Pipe sizes of return lines and suction lines, also type of piping to be used, (copper, PVC, etc.).

5. Four feet of paved and unobstructed decking completely around all pools (sloped away from pool at 1/2 to 3/8 inch to drains) including special use pools and wading pools. The distance between any pool and spa pool must be at least six feet.
6. Depth markers on both sides (at break, minimum and maximum depths) and ends. If the pool is over 20 feet wide, the pool must have corresponding depth markers in pool deck.
7. Location of hose bibs in the pool area for washing of deck area. (Antisiphon valves required).
8. Main drain grates must be screwdownd type and IAPHO approved.
9. Two return inlets for the first 10,000 gallons or fractional part thereof. Locate minimum eighteen inches below the water line.

SAFETY EQUIPMENT

1. Sign indicating, "No Lifeguard on duty. Children under the age of 14 should not use pool without an adult in attendance."
2. Artificial respiration demonstration sign.
3. Emergency telephone numbers sign.
4. No Diving Allowed sign (if pool maximum depth is 6 feet or under).
5. Test kit for pH and chlorine.
6. First-aid kit.
7. Body hook on a twelve foot pole.
8. Life-ring with a 3/16 inch attached line long enough to span maximum width of pool.
9. Occupant load sign. (1 bather/20 square feet).

ADDITIONAL REQUIREMENTS

1. Step treads must be twelve inches wide. Top curved steps must be at least eighteen inches wide. Step risers must not exceed twelve inches in height.
2. All pools must be enclosed by a minimum five foot high fence. Fence openings cannot exceed four inches. Gates must be self-latching with latch at least 31/2 feet above walk or deck. (More stringent fence requirements as required by Building Departments will be acceptable).

Submit section view of coping, drawn to scale.